

REMARKS

Claims 1-21 are pending. Claims 1-2, 10-11 and 19 are amended with this response, and new claims 20-21 are added. Applicant notes with appreciation the provisional allowance of claims 2-9 and 11-19. Claims 2, 11 and 19 have been amended into independent form and are now believed to be in condition for allowance. Reconsideration of the application is respectfully requested for at least the following reasons.

I. DRAWINGS OBJECTIONS

The drawings were objected to because there were unlabeled rectangular boxes in Figs. 2-8. Replacement Figs. 2-8 are provided herein to address the objection. Accordingly, withdrawal of the objection is respectfully requested.

II. OBJECTION TO CLAIM 19

Claim 19 was objected to, stating that the term "internal memory" needs to be defined in the original disclosure. The paragraph on page 21 directed to the "internal memory" has been amended in accordance with the suggestion within the Office Action. Note that since all the recitation provided therein are merely examples of an internal memory that are known and appreciated by those of ordinary skill in the art, the specification amendment does not constitute new matter.

III. REJECTION OF CLAIMS 1 AND 10 UNDER 35 U.S.C. § 103(a)

Claims 1 and 10 were rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent Publication No. 2002/0101840 (Davidsson et al.). Withdrawal of the rejection is respectfully requested for at least the following reasons.

- i. *Davidsson et al. do not teach a system or method where there is a switch from the pilot-based phase and frequency tracking to a data-based phase and frequency tracking, as recited in claims 1 and 10, respectively.*

Claim 1 is directed to a tracking system comprising a first system operable to perform a pilot-based phase and frequency tracking, and a second system operable to perform data-based phase and frequency tracking. The tracking system further comprises a control system that is operable to *switch between the pilot-based phase and frequency tracking to the data-based phase and frequency tracking*. Claim 10 is directed to a method for tracking rapid changes in frequency and phase offset. The method comprises performing pilot-based phase and frequency tracking, and data-based phase and frequency tracking. The method further comprises *switching from the pilot-based phase and frequency tracking to the data-based phase and frequency tracking*. Davidsson et al. do not teach a system or method wherein such *switching* occurs. Therefore the cited reference does not render obvious the inventions of claims 1 and 10. Accordingly, withdrawal of the rejection is respectfully requested.

IV. NEW CLAIMS 20-21

New claims 20-21 have been added in this response. Claim 21 is directed to a tracking system that comprises a control system that is operable to gradually reduce an effect of the first system (performing pilot-based phase and frequency tracking) and increase an effect of the second system (performing data-based phase and frequency tracking).

New claim 21 is directed to a method of performing both pilot-based phase and frequency tracking and data-based phase and frequency tracking. The method further comprises gradually reducing an effect of said pilot-based phase and frequency tracking and increasing an effect of said data-based phase and frequency tracking system. It is respectfully submitted that Davidsson et al. do not teach these claim

features. Accordingly, such claims are believed to be allowable over the cited art of record.

V. CONCLUSION

For at least the above reasons, the claims currently under consideration are believed to be in condition for allowance.

Should the Examiner feel that a telephone interview would be helpful to facilitate favorable prosecution of the above-identified application, the Examiner is invited to contact the undersigned at the telephone number provided below.

Should any fees be due as a result of the filing of this response, the Commissioner is hereby authorized to charge the Deposit Account Number 50-1733, LLP127US.

Respectfully submitted,
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